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#2

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/866,261

DATE: 06/14/2001
 TIME: 11:17:20

Input Set : N:\Crf3\RULE60\09866261.txt
 Output Set: N:\CRF3\06142001\I866261.raw

3 <110> APPLICANT: Johnson, Eric S.
 4 Pham, Thuy D.
W--> 5 <120> TITLE OF INVENTION: Viral Detection System
W--> 6 <130> FILE REFERENCE: D6161
 8 <140> CURRENT APPLICATION NUMBER: 09/866,261
 9 <141> CURRENT FILING DATE: 2001-05-25
 11 <150> PRIOR APPLICATION NUMBER: US 09/159,325
 12 <151> PRIOR FILING DATE: 1998-09-23
 14 <150> PRIOR APPLICATION NUMBER: US 60/061,287
 15 <151> PRIOR FILING DATE: 1997-10-07
W--> 16 <160> NUMBER OF SEQ ID: 26
 18 <210> SEQ ID NO: 1
 19 <211> LENGTH: 205
 20 <212> TYPE: DNA
 21 <213> ORGANISM: Avian leukosis/sarcoma virus of the family Retroviridae
W--> 22 <220> FEATURE:
 23 <223> OTHER INFORMATION: Subgroup A of the avian leukosis/sarcoma virus.
W--> 24 <400> SEQUENCE: 1
 25 ctacagctgt tagttccca gtctctccct aacattacta atattactca gatctccgg 60
 26 gtaaccgggg gatgcgttagg cttcaggcca aaagggggttc cttggtatct gggttggct 120
 27 agacaggaag ccacgcgggtt ttccttaga cgcgcctt tctctaactc ctcgaaaccg 180
 28 ttacagtggtt tgacagcgaa taggc 205
 30 <210> SEQ ID NO: 2
 31 <211> LENGTH: 229
 32 <212> TYPE: DNA
 33 <213> ORGANISM: Avian leukosis/sarcoma virus of the family Retroviridae
W--> 34 <220> FEATURE:
 35 <223> OTHER INFORMATION: Subgroup B of the avian leukosis/sarcoma virus.
W--> 36 <400> SEQUENCE: 2
 37 ctacaactgc tagttccca gtctctcccc aatataacta atattactcg gatccccagt 60
 38 gtggctggag gatgcataagg ctttacccca tacgatagtc cggctgggtt ctacggatgg 120
 39 gaccggagag agttacaca catccttctg accgacccag gaaacaatcc tttctttgtat 180
 40 aaggcctcta actcctcgaa accgtttaca gtagtgacag cggacaggc 229
 42 <210> SEQ ID NO: 3
 43 <211> LENGTH: 211
 44 <212> TYPE: DNA
 45 <213> ORGANISM: Avian leukosis/sarcoma virus of the family Retroviridae
W--> 46 <220> FEATURE:
 47 <223> OTHER INFORMATION: Subgroup C of the avian leukosis/sarcoma virus.
W--> 48 <400> SEQUENCE: 3
 49 ctgcagctgc tagttccca gtctctccct aacgttacta acattactca ggtctctggc 60
 50 gtggccgggg gatgtgtata tttcgcccca agggccactg gcctgtttt aggttggct 120
 51 aaacaagggtc ttcgcgggtt ctcctccgt cacccttta ctcacccaccc 180
 52 gaaccgttca cggtggtgac agcggataga c 211
 54 <210> SEQ ID NO: 4
 55 <211> LENGTH: 229
 56 <212> TYPE: DNA

ENTERED

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Input Set : N:\Crf3\RULE60\09866261.txt
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57 <213> ORGANISM: Avian leukosis/sarcoma virus of the family Retroviridae
W--> 58 <220> FEATURE:
59 <223> OTHER INFORMATION: Subgroup D of the avian leukosis/sarcoma virus.
W--> 60 <400> SEQUENCE: 4
61 ctgcagctgt taggctccca gtctctccct aatatcgcta atattactca gatccctgg 60
62 gtggcaggag gatgcataagg cttcacccca tacggcagtc cggctgggtgt ttacgggtgg 120
63 ggccggaaag aggtgacaca catcctctta accaaccccc ctgataatcc tttctttaac 180
64 cgtgcttcta actccacgga accgtttacg gtggtgacag cgataggc 229
66 <210> SEQ ID NO: 5
67 <211> LENGTH: 228
68 <212> TYPE: DNA
69 <213> ORGANISM: Avian leukosis/sarcoma virus of the family Retroviridae
W--> 70 <220> FEATURE:
71 <223> OTHER INFORMATION: Subgroup E of the avian leukosis/sarcoma virus.
W--> 72 <400> SEQUENCE: 5
73 ctacagctgc taggctccca gtctctccct aacattacta atattactca gattctgg 60
74 gtaaccgggg gatgcgttagg cttcgccccca cactccaatc caagtgggtgt ctacgggtgg 120
75 ggccggagac agtttacaca caacttcttg atcgccccgt gggtcaatcc tttctttaac 180
76 agcgcttcta actccacgga accgttacgg tggtgacagc ggataggc 228
78 <210> SEQ ID NO: 6
79 <211> LENGTH: 202
80 <212> TYPE: DNA
81 <213> ORGANISM: Single Comb White Leghorn chicken
W--> 82 <220> FEATURE:
83 <223> OTHER INFORMATION: PCR product Fb2, or 2F, isolated from egg albumin of ALSV-
84 positive stock F chicken
W--> 85 <400> SEQUENCE: 6
86 acagctgtta ggccccagt ttttcctcac attattaata ttactcaaat ttctgggtgt 60
87 accggaggag gcgtaggctt tagaccagga gggatccctt ggttatataagg atggactaga 120
88 caggaagcca cacggcttctt ctttagacaaa tcctcccttt ctaattccac ggaaccattt 180
89 acgggtggta cagcggatag gc 202
91 <210> SEQ ID NO: 7
92 <211> LENGTH: 22
93 <212> TYPE: DNA
94 <213> ORGANISM: artificial sequence
W--> 95 <220> FEATURE:
96 <221> NAME/KEY: primer_bind
97 <223> OTHER INFORMATION: Forward primer PA1 specific for the detection of viral
98 subgroup A of avian/leukosis sarcoma virus.
W--> 99 <400> SEQUENCE: 7
100 ctacagctgt taggctccca gt 22
103 <210> SEQ ID NO: 8
104 <211> LENGTH: 21
105 <212> TYPE: DNA
106 <213> ORGANISM: artificial sequence
W--> 107 <220> FEATURE:
108 <221> NAME/KEY: primer_bind
109 <223> OTHER INFORMATION: Reverse primer PA2 specific for the detection of viral
110 subgroup A of avian/leukosis sarcoma virus.

RAW SEQUENCE LISTING
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Input Set : N:\Crf3\RULE60\09866261.txt
Output Set: N:\CRF3\06142001\I866261.raw

W--> 111 <400> **SEQUENCE: 8**
 112 gccttatccgc tgtcaccact g 21
 114 <210> SEQ ID NO: 9
 115 <211> LENGTH: 202
 116 <212> TYPE: DNA
 117 <213> ORGANISM: Single Comb White Leghorn chicken
W--> 118 <220> FEATURE:
 119 <223> OTHER INFORMATION: RT-PCR product from egg albumin of stock 2F chicken.
W--> 120 <400> SEQUENCE: 9
 121 acagctgtta ggttccccagt ttttccctca cattataata ttactcaaat ttctggtgta 60
 122 accggaggag gcgttaggctt tagaccaggaa gggatcccct ggtatataagg atggactaga 120
 123 caggaagcca cacgggttcct ccttagacaa tcctcccttt ctaattccac ggaaccattt 180
 124 acgggttgta cagcggatag gc 202
 126 <210> SEQ ID NO: 10
 127 <211> LENGTH: 226
 128 <212> TYPE: DNA
 129 <213> ORGANISM: Single Comb White Leghorn chicken
W--> 130 <220> FEATURE:
 131 <223> OTHER INFORMATION: RT-PCR product from egg albumin of stock 6F chicken.
W--> 132 <400> SEQUENCE: 10
 133 cagctgttag gttcccgatc tctccctaacc attactaata ttactcagat ttctggtgta 60
 134 actggggat gcgttaggctt caccccacac tccaatccaa gtggtggtta cggtggggc 120
 135 cggagacagg ttacacacaa cttcttgatc gccccgtggg tcaatccctt cttaaacago 180
 136 gcttctaact ccacggaaacc gtttacggtg gtgacagcgg ataggc 226
 138 <210> SEQ ID NO: 11
 139 <211> LENGTH: 225
 140 <212> TYPE: DNA
 141 <213> ORGANISM: Single Comb White Leghorn chicken
W--> 142 <220> FEATURE:
 143 <223> OTHER INFORMATION: RT-PCR product from egg albumin of stock 7Q chicken.
W--> 144 <400> SEQUENCE: 11
 145 cagctgttag gttcccgatc tctccctaacc attattaata ttactcagat ttctggtgta 60
 146 actggggat gcgttaggctt caccccacac tccaatccaa gtggtggtta cggtggggc 120
 147 cggagacagg ttacacacaa cttcttgatc gccccgtggg tcaatccctt cttaaacago 180
 148 gcttctaact ccacggaaacc gtttacggtg gtgacagcgg ataggc 225
 150 <210> SEQ ID NO: 12
 151 <211> LENGTH: 229
 152 <212> TYPE: DNA
 153 <213> ORGANISM: Single Comb White Leghorn chicken
W--> 154 <220> FEATURE:
 155 <223> OTHER INFORMATION: RT-PCR product from egg albumin of stock 10Q chicken.
W--> 156 <400> SEQUENCE: 12
 157 ctacagctgt taggtccca gtctccctt aacattacta atattactca gatttctgg 60
 158 gtaaccgggg gatgcgttagg cttcgccca cactccaatc caagtgggtt ctacgggtgg 120
 159 ggccggagac aggttacaca caacttctt atcgccccgt gggtaatcc tttctttaac 180
 160 agcgcttcta actccacgga accgttacg gtggtgacag cgataggc 229
 162 <210> SEQ ID NO: 13
 163 <211> LENGTH: 224
 164 <212> TYPE: DNA

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Input Set : N:\Crf3\RULE60\09866261.txt
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165 <213> ORGANISM: unknown
W--> 166 <220> FEATURE:
 167 <223> OTHER INFORMATION: RT-PCR product from egg albumin of commercial chicken from
 168 randomly chosen grocery store # 205.
W--> 169 <400> SEQUENCE: 13
 170 gctgttaggt tcccagtctc tccctaacat tactaatatt actcagattt ctgggtgtaac 60
 171 cgggggatgc gtaggctca ccccacactc caatccaagt ggtgtttacg ggtggggccg 120
 172 gagacaggtt acacacaact tcttgatcgc cccgtgggtc aatccttct ttaacagcgc 180
 173 ttcttaactcc acggaaccgt ttacggtgtt gacagcggat agg 224
 175 <210> SEQ ID NO: 14
 176 <211> LENGTH: 203
 177 <212> TYPE: DNA
 178 <213> ORGANISM: unknown
W--> 179 <220> FEATURE:
 180 <223> OTHER INFORMATION: RT-PCR product from egg albumin of commercial chicken from
 181 randomly chosen grocery store # 65.
W--> 182 <400> SEQUENCE: 14
 183 tacagctgtt aggtcccgag tctctcccta acattactaa catactcaaata 60
 184 aaccggagga tgcttaggtt ttagaccagg agggatcccc tggtatatgg gatggactag 120
 185 acaggaagcc acacggttcc tccttaaaca atcctcctt tctaattcca cggaaccatt 180
 186 tacgggtgggt acagcggata ggc 203
 188 <210> SEQ ID NO: 15
 189 <211> LENGTH: 21
 190 <212> TYPE: DNA
 191 <213> ORGANISM: artificial sequence
W--> 192 <220> FEATURE:
 193 <221> NAME/KEY: primer_bind
 194 <222> LOCATION: 5564..5585
 195 <223> OTHER INFORMATION: Forward primer PU1 specific for the detection of viral
 196 subgroup A-E of avian/leukosis sarcoma virus. Position
 197 corresponds to the numbering of the RNA genome of the
 198 Prague C strain of RSV.
W--> 199 <400> SEQUENCE: 15
 200 ctrcarctgy taggytccca g 21
 202 <210> SEQ ID NO: 16
 203 <211> LENGTH: 21
 204 <212> TYPE: DNA
 205 <213> ORGANISM: artificial sequence
W--> 206 <220> FEATURE:
 207 <221> NAME/KEY: primer_bind
 208 <222> LOCATION: 5772..5791
 209 <223> OTHER INFORMATION: Reverse primer PU2 specific for the detection of viral
 210 subgroup A-E of avian/leukosis sarcoma virus. Position
 211 corresponds to the numbering of the RNA genome of the
 212 Prague C strain of RSV.
W--> 213 <400> SEQUENCE: 16
 214 gycaycactg tcgcctrcc g 21
 216 <210> SEQ ID NO: 17
 217 <211> LENGTH: 20

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Input Set : N:\Crf3\RULE60\09866261.txt
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218 <212> TYPE: DNA
219 <213> ORGANISM: artificial sequence
W--> 220 <220> FEATURE:
221 <221> NAME/KEY: primer_bind
222 <222> LOCATION: 5642..5661
223 <223> OTHER INFORMATION: Forward primer PA10 specific for the detection of viral subgroup A of avian/leukosis sarcoma virus. Position corresponds to the numbering of the RNA genome of the Prague C strain of RSV.
W--> 227 <400> SEQUENCE: 17
228 ggcttcaggc caaaaagggt 20
230 <210> SEQ ID NO: 18
231 <211> LENGTH: 22
232 <212> TYPE: DNA
233 <213> ORGANISM: artificial sequence
W--> 234 <220> FEATURE:
235 <221> NAME/KEY: primer_bind
236 <222> LOCATION: 5858..5879
237 <223> OTHER INFORMATION: Reverse primer PA20 specific for the detection of viral subgroup A of avian/leukosis sarcoma virus. Position corresponds to the numbering of the RNA genome of the Prague C strain of RSV.
W--> 241 <400> SEQUENCE: 18
242 gtgcattgcc acagcggtac tg 22
244 <210> SEQ ID NO: 19
245 <211> LENGTH: 20
246 <212> TYPE: DNA
247 <213> ORGANISM: artificial sequence
W--> 248 <220> FEATURE:
249 <221> NAME/KEY: primer_bind
250 <222> LOCATION: 5642..5661
251 <223> OTHER INFORMATION: Forward primer PB1 specific for the detection of viral subgroup A of avian/leukosis sarcoma virus. Position corresponds to the numbering of the RNA genome of the Prague C strain of RSV.
W--> 255 <400> SEQUENCE: 19
256 ggctttaccc catacgatag 20
258 <210> SEQ ID NO: 20
259 <211> LENGTH: 21
260 <212> TYPE: DNA
261 <213> ORGANISM: artificial sequence
W--> 262 <220> FEATURE:
263 <221> NAME/KEY: primer_bind
264 <222> LOCATION: 5861..5882
265 <223> OTHER INFORMATION: Reverse primer PB2 specific for the detection of viral subgroup A of avian/leukosis sarcoma virus. Position corresponds to the numbering of the RNA genome of the Prague C strain of RSV.
W--> 269 <400> SEQUENCE: 20

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/866,261

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Input Set : N:\Crf3\RULE60\09866261.txt
Output Set: N:\CRF3\06142001\I866261.raw

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L:6 M:283 W: Missing Blank Line separator, <130> field identifier
L:16 M:283 W: Missing Blank Line separator, <160> field identifier
L:22 M:283 W: Missing Blank Line separator, <220> field identifier
L:24 M:283 W: Missing Blank Line separator, <400> field identifier
L:34 M:283 W: Missing Blank Line separator, <220> field identifier
L:36 M:283 W: Missing Blank Line separator, <400> field identifier
L:46 M:283 W: Missing Blank Line separator, <220> field identifier
L:48 M:283 W: Missing Blank Line separator, <400> field identifier
L:58 M:283 W: Missing Blank Line separator, <220> field identifier
L:60 M:283 W: Missing Blank Line separator, <400> field identifier
L:70 M:283 W: Missing Blank Line separator, <220> field identifier
L:72 M:283 W: Missing Blank Line separator, <400> field identifier
L:82 M:283 W: Missing Blank Line separator, <220> field identifier
L:85 M:283 W: Missing Blank Line separator, <400> field identifier
L:95 M:283 W: Missing Blank Line separator, <220> field identifier
L:99 M:283 W: Missing Blank Line separator, <400> field identifier
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L:248 M:283 W: Missing Blank Line separator, <220> field identifier
L:255 M:283 W: Missing Blank Line separator, <400> field identifier
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L:297 M:283 W: Missing Blank Line separator, <400> field identifier
L:304 M:283 W: Missing Blank Line separator, <220> field identifier

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L:318 M:283 W: Missing Blank Line separator, <220> field identifier